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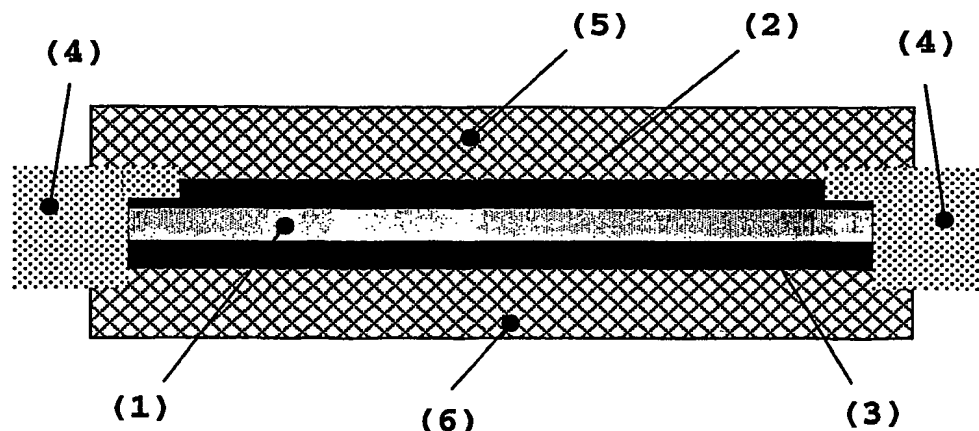
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(54) Title: **CATALYST-COATED MEMBRANE WITH INTEGRATED SEALING MATERIAL AND MEMBRANE-ELECTRODE ASSEMBLY PRODUCED THEREFROM**



(57) Abstract: The invention relates to a catalyst-coated ion-conducting membrane and a membrane-electrode assembly (MEA) for electrochemical devices, in particular for fuel cells. The catalyst-coated, ion-conducting membrane is provided with a sealing material which is applied in the edge region to one side of the membrane and has a thickness which corresponds to at least the total thickness of the catalyst-coated membrane. Owing to their simple, material-conserving construction, the catalyst-coated ion-conducting membranes and the membrane-electrode assemblies produced therefrom can be manufactured inexpensively. They are used in PEM fuel cells, direct methanol fuel cells (DMFCs), electrolyzers and other electrochemical devices.

WO 2005/029620 A1



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